

CLAIMS

1. A headgear assembly, comprising:

(a) an article of headgear; and

(b) an illumination assembly mounted on said
5 article of headgear and including:

(i) an illumination source mounting
assembly having a base that is
attached to and supported by said
article of headgear and a rotatable
10 portion being rotatably supported by
said base, said rotatable portion
being rotatable about at least one
axis of rotation; and

(ii) an illumination source supported by
15 said rotatable portion and having a
mass of less than 60 grams (weighing
less than 2.12 ounces).

2. The headgear assembly of claim 1 wherein

20 said article of headgear is a safety helmet.

3. The headgear assembly of claim 2 wherein

said safety helmet is a firefighter's helmet.

25 4. The headgear assembly of claim 2, wherein

said safety helmet includes a visor and wherein said
illumination assembly is mounted to said visor.

5. The headgear assembly of claim 1 wherein

30 said illumination source is rotatably mounted to said
rotatable portion and is rotatable relative to said
rotatable portion about a different axis of rotation than

said axis of rotation of said rotatable portion relative to said base.

6. The headgear assembly of claim 1 wherein
5 said illumination source has a mass of less than 40 grams
(weighs less than 1.41 ounces).

7. A headgear assembly, comprising:
(a) an article of headgear; and
10 (b) an illumination assembly mounted on said
article of headgear and including:
(i) an illumination source mounting
assembly having a base that is
attached to and supported by said
15 article of headgear and a rotatable
portion being rotatably supported by
said base, said rotatable portion
being rotatable about at least one
axis of rotation; and
20 (c) an illumination source supported by said
rotatable portion and having a length of less
than 6 cm (2.36 in) along its greatest
dimensional extent.

25 8. The headgear assembly of claim 7 wherein
said article of headgear is a safety helmet.

9. The headgear assembly of claim 8 wherein
said safety helmet is a firefighter's helmet.

10. The headgear assembly of claim 8, wherein said safety helmet includes a visor and wherein said illumination assembly is mounted to said visor.

5 11. The headgear assembly of claim 7 wherein said illumination source is rotatably mounted to said rotatable portion and is rotatable relative to said rotatable portion about a different axis of rotation than said axis of rotation of said rotatable portion relative to
10 said base.

 12. The headgear assembly of claim 7 wherein said illumination source has a length of less than 5 cm (2 in) along its greatest dimensional extent.

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 13. A method of retrofitting a safety helmet to include a rotatable illumination source, comprising:

- (a) providing a rotatable illumination source assembly having a base; and
- 20 (b) adhering said base to said safety helmet.

 14. The method of claim 13 wherein said base includes an adhesive element adapted to facilitate step (b).

25 15. The method of claim 14 wherein said adhesive element is compressibly deformable, thereby being able to conforming to a non-planar surface.

16. A headgear assembly, comprising:

(a) an article of headgear; and

(b) an illumination assembly mounted on said
5 article of headgear and including:

(i) an illumination source mounting
assembly having a base that is
attached to and supported by said
article of headgear and a rotatable
10 portion being rotatably supported by
said base, said rotatable portion
being rotatable about at least one
axis of rotation; and

(ii) an illumination source supported by
15 said rotatable portion; and

(c) wherein said illumination source assembly
protrudes no more than 6 cm from the side of
said article of headgear.

17. A headgear assembly, comprising:

(a) an article of headgear; and

(b) an illumination assembly mounted on said
5 article of headgear and including:

(i) an illumination source mounting
assembly having a base that is
attached to and supported by said
article of headgear and a rotatable
10 portion being rotatably supported by
said base, said rotatable portion
being rotatable about at least one
axis of rotation; and

(ii) an illumination source supported by
15 said rotatable portion; and

(c) wherein said illumination source assembly
can be angle adjusted without the need to
loosen any retaining element.

20 18. A method of retrofitting a safety helmet
having a visor that includes a corner that is hinged to
said helmet, to include a rotatable illumination source,
comprising:

(a) providing a rotatable illumination source
25 assembly having a base that is in the form of
a clip; and

(b) clipping said base to said corner of said
visor.